NGDA Dataset Report

Official NGDA Title: Geodetic Control Information on Passive Marks

Metadata Record Title: Geodetic Control Information on Passive Marks: Horizontal and Vertical Geodetic Control Data for the United States - National Geospatial Data Asset (NGDA) Geodetic Control Information on Passive Marks

A–16 NGDA Theme: Geodetic Control

Executive NGDA Theme Champion(s):

Name: Juliana Blackwell

Agency: DOC-NOAA

Email: juliana.blackwell@noaa.gov

Theme Lead(s):

Name: Neil Weston

Agency: NOAA

Email: Neil.D.Weston@noaa.gov

Dataset Manager(s):

Name: Krishna Tadepalli

Agency: NOAA

Email: krishna.tadepalli@noaa.gov

Name: Jeremy McHugh

Agency: NOAA

Email: jeremy.mchugh@noaa.gov

Metadata:

Registration Status: Complete

Registered on   12/2/2014

GeoPlatform Link*:   http://www.geoplatform.gov/node/243/8cfcbf0c-5657-43cb-bf18-e198011612a4

Data.gov Metadata Link*:   http://catalog.data.gov/harvest/object/4965155c-5f6d-4693-b79e-6c931fc23599/html

*If the metadata has been updated and reharvested after publication of this report, the link may no longer be valid. The dataset may be searched for manually in Data.gov or GeoPlatform.gov.

NGDA Lifecycle Maturity Assessment (LMA) Report

Time Frame:

Baseline assessment responses include historic information from 1970.

LMA Submission:

Status: Complete

Date: 10/2/2015

Extension Requested: No

LMA Reviewer(s):

Supervisor: Did not review

Theme Lead: Neil Weston

Executive Champion: Did not review

SAOGI*: Did not review

Other: Did not review

LMA Verifier:

Name: Neil Weston

Email: Neil.D.Weston@noaa.gov

Attachments:

To get access to any attachments referenced in the report, email the LMA Help Desk at NGDA_LMA_help@fgdc.gov. Please use the subject "Dataset Report Attachment(s)" and indicate the associated official NGDA title.

*Senior Agency Official for Geospatial Information (SAOGI)

Lifecycle Maturity Assessment (LMA) Summary

Overall Maturity:

Optimized; Established

General Questions: 100%

Optimized; Established

Stage 1 - Define/Plan: 100%

Optimized; Established

Stage 2 - Inventory/Evaluate: 100%

Optimized; Established

Stage 3 - Obtain: 100%

Optimized; Established

Stage 4 - Access: 100%

Optimized; Established

Stage 5 - Maintain: 100%

Optimized; Established

Stage 6 - Use/Evaluate 100%

Optimized; Established

Stage 7 - Archive: 100%

Optimized; Established

NGDA Dataset Maturity Definitions:

How To Calculate Maturity: https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf

Maturity	Maturity Characteristics for All Lifecycle Stages
Optimized; Established Rank = 5	Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.
Mature; Consistent Rank = 4	Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used widely by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a recurring basis. The dataset is well managed in relation to the approved lifecycle.
Managed; Predictable Rank = 3	Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.
Transition; Transformation Rank = 2	Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.
Planned; Initial Development Rank = 1	Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to consider secondary uses, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.
No Activity Rank = no activity	Dataset meets project or local business needs of the primary owner, secondary or additional uses or users were not considered, not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.

General Questions for All Stages

1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?

Answer: Funding support is part of agency budget on a recurring basis, funding is consistent and tied to business processes, and supports all lifecycle stages.

Justification Comment: **Attachment(s):**   0

Development and maintenanance of passive control is aligned with agency's mission. Funding for all lifecycle stages of passive control is an integral part of agency's annual budget request.

2) Is there a process in place to ensure that open government and transparency guidelines are followed in all lifecycle stages for this dataset?

Answer: Process is published as appropriate with respect to sensitivity requirements, process is transparent, published appropriately.

Justification Comment: **Attachment(s):**   0

Management of this dataset follows all scientific data management per the NOAA Administrative Order "NAO 202-735D: Scientific Integrity." NAO 202-735D outlines how NOAA complies with Open Government and Transparency requirements for all scientific data. Openness in communications is achived via Federal Register notices, coordination with FGCS, and outreach in the form of webinars, summits, news items on the NGS web site, and listserve announcements. Feedback from stakeholders is collected and processed primarily from web pages and Foresee surveys.

3) Are there processes and tools in place so that staff are sufficiently knowledgeable to ensure a continuity of the dataset for all stages of the lifecycle, especially during staffing transitions?

Answer: Processes and tools to ensure dataset continuity are in place and implemented for all lifecycle stages.

Justification Comment: **Attachment(s):**   0

NGS maintains a rich set of documentation on tools and SOPs for all lifecyle stages of passive control on its web site. NGS ensures maintenance and improvement of core competencies via brown bags, online training material, informal team meetings. NGS employee performance plans further emphasize the need for maintaining and improving core competencies.

STAGE 1 - Define/Plan

4) Are user and business requirements defined and formalized?

Answer: A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

Justification Comment: **Attachment(s):**   0

NGS maintains partnerships with state, local, academia, and international communities to solicit input regarding existing and new products. NGS constantly seeks opportunities for new partnerships.

5) How are partners/stakeholders involved in the requirements collection process?

Answer: A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

Justification Comment: **Attachment(s):**   0

NGS has an active state advisor program. State advisors work closely with the state(s) they represent, identify stakeholder needs, and ensure those needs are factored into agency's short term and long term plans. NGS has an active Products and Services Committee where current and future products and services are reviewed and approved based on stakeholders input.

6) Is there a quality assurance process for the dataset?

Answer: Quality assurance published as appropriate with respect sensitivity requirements.

Justification Comment: **Attachment(s):**   0

NGS employs rigorous quality assurance procedures with regards to passive control at all stages of the lifecycle prior to dissemination. Positional accuracies are published on the datasheet.

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7) Is there a process to evaluate the sensitivity, privacy, and confidentiality of this dataset?
Answer: Sensitivity, privacy, and confidentiality evaluations fully implemented, reviewed and updated on a recurring basis.

Justification Comment: **Attachment(s):**   0

Checks are in place to protect the sensitivity of data where warranted. Publishability guidelines are documented.

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8) Are defined data standards used in collecting, processing, and/or rendering the data?
Answer: Standards fully implemented documented and published as appropriate.

Justification Comment: **Attachment(s):**   0

NGS has a set of standards and guidelines to collect and process passive control data. These standards and guidelines are collectively referred to as bluebooking. Data are disseminated following publishability guidelines.

STAGE 2 - Inventory/Evaluate

9) Is there a process for determining if data necessary to meet requirements already exist from other sources (either within or outside the agency) before collecting or acquiring new data?
Answer: Process for determining appropriate data is being reused fully implemented, reviewed, and updated on a regular basis.

Justification Comment: **Attachment(s):**   0

NGS performs an extensive analysis of data requirements for passive control and the sources from where those requirements can be fulfilled whether it be internal or external. NGS has partnerships with program and line offices at NOAA and other federal agencies to identify and share data sources as needed so that duplication of data collection and processing can be avoided. NGS project plans document data sources needed for successful execution of projects and how those requirements are met.

STAGE 3 - Obtain

10) Is there a process for obtaining data in relation to this dataset?
Answer: Process is fully implemented, reviewed and updated on a regular basis.

Justification Comment: **Attachment(s):**   0

NGS is the authoritative source for passive control and maintains National Spatial Reference System (NSRS). NGS constantly explores opportunities to streamline and improve underlying processes to improve overall efficiency of data collection, processing, and dissemination. This is identified as one of the goals in the NGS ten year plan. Requirements in relation to obtaining data which could improve the quality of passive control are vetted by the senior management and the associated project plans are reviewed and approved by a project review board.

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11) Is the metadata in a FGDC endorsed geospatial metadata standard?
Answer: Metadata is available in a format endorsed by the FGDC, it fully describes the dataset and provides all the information required to make the dataset discoverable, accessible, and usable.

Justification Comment: **Attachment(s):**   0

Metadata are written to the FGDC Content Standard. Keyword tags and associated information have been entered to make it discoverable, accessible,and usable.

12) How complete is the geographic coverage as defined in the requirements for the dataset?

Part 1 Answer: Business requirements for cyclic updates identified and a process is in place.

Part 2 Answer: Dataset has presently attained the greatest geographic coverage as defined by the current requirements or roughly 100%.

Justification Comment: **Attachment(s):**   0

Requirements for cyclic updates are well documented and funded through programs such as Height Modernization and other survey campaigns.

Passive control has good geographic coverage over CONUS, AK, HI, Puerto Rico, and Island areas. Passive control is actively maintained and updated through survey campaigns.

STAGE 4 - Access

13) Do you have a process for providing users access to the data in an open digital machine readable format?

Answer: User access process is fully implemented, data is available, process is reviewed and updated on a recurring basis.

Justification Comment: **Attachment(s):**   0

Data can be discovered and retrieved on the web. Downlodable digital formats are available in the form of shapefiles and text files. Development is underway for more user and computer-friendly geospatial formats.

STAGE 5 - Maintain

14) Is there a maintenance process for updating and storing the dataset?

Answer: Dataset maintenance process is fully implemented and processes are reviewed and periodically updated.

Justification Comment: **Attachment(s):**   0

Datasets are maintained and stored in NGS internal databases and are updated as needed. All original source datasets and intermediate datasets are preserved and maintained on NGS internal storage network.

15) Is there an error correction process as part of dataset maintenance?

Answer: Error correction process includes user notification, process reviewed on a recurring basis.

Justification Comment: **Attachment(s):**   0

A process exists for correcting the errors discovered via database updates and notification to the user community where warranted.

STAGE 6 - Use/Evaluate

16) Is there a process to determine if the dataset meets user needs?

Answer: Process is fully implemented and repeated on a recurring basis.

Justification Comment: **Attachment(s):**   0

User needs relative to the dataset are assessed on a continuous basis through webinars, summits that NGS hosts or participates, NGS state advisor program, user feedback on the web, and Foresee surveys.

17) Is there a process to provide users information on how to access and properly use the dataset?

Answer: Process is fully implemented supporting access and proper use, process is reviewed on a recurring basis.

Justification Comment: **Attachment(s):**   0

A process exists for disseminating information on proper use of the dataset through continuous

education and outreach using webinars, summits that NGS hosts or participates, and NGS state advisor program.

18) Are the business processes and management practices assessed to meet changing technology?

Answer: Assessment process is fully implemented for taking advantage of changing technology, process is reviewed on a recurring basis.

Justification Comment: **Attachment(s):**   0

NGS has a formal process for responding to changes in technology and customers needs. Business and management process are vetted internally by a number of committees in relation to products and services that NGS provides, new processes are reviewed, approved, and funded.

STAGE 7 - Archive

19) Is there an archiving process for the dataset?

Answer: Archival and disposition processes are fully implemented.

Justification Comment: **Attachment(s):**   0

NGS internal databases that store passive control and associated datasets are backed up and archived to digital media on a continuous basis. Datasets are also archived to remote sites to support continuity of operations.